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UTILITY PATENT APPLICATION **TRANSMITTAL**

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Attorney Docket No.	60,246-258/10781	_
First Inventor	Tobias Sienel	
Title	Freeze Protection For Heat Pump	
Express Mail Label No.	EV221422999US	

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See MPEP o	· · · · — · - · · ·	ION ELEMENTS ming utility patent application contents.	ADDRES	SS TO:	Commissi P.O. Box 1	Patent Appli oner for Pat I 450 a VA 22313-	ents	
2. Applica See 37 3. Specifi (preferr - Descr - Cross - Stater - Refer or a c - Backg	t an original and a ant claims small 7 CFR 1.27. ication ed arrangement so iptive title of the in Reference to Rela	[Total Pages 10] et forth below) vention ated Applications ed sponsored R & D listing, a table, isting appendix tition	8. Nucle (if app a. b.	i.	ram (Appe mino Acid essary) Readable ion Seque ROM or Cl	ndix) Sequence Form (CR nce Listing	Submission F) on: oies); or	22141 U.S. PTO 10/725732
 Brief Description of the Drawings (if filed) Detailed Description 			c. L				f above copies	
- Claim			AC	COMPAN	YING AF	PLICAT	ION PART	S
- Abstra 4.	act of the Disclosuring(s) (35 U.S.C. laration why executed (or by from a prior a continuation/div. DELETION OF Signed statement name in the prior a 1.63(d)(2) and 1.3 ication Data Shellowing the title, mustion of DIVISION of a part of the discourage.	[Total Sheets] [Total Sheets] iginal or copy) pplication (37 CFR 1.63(d)) visional with Box 18 completed) INVENTOR(S) application, see 37 CFR 3(b). cet. See 37 CFR 1.76 ATION, check appropriate box, and suppor in an Application Data Sheet under 3	7 CFR 1.76: tion-in-part (Cl e prior applica or divisional	P) of pri Art Un ation, from whice	b) Statemes an assignation Docisciosure (S)/PTO-14 mendment of Postcard ecifically it is claim n Request policant ment. icate. of. I mediate of the an oath of the an oath of the polication of the polic	ent (nee) (if a 1449 (Power of Attorney pplicable) Copies of II Citations O3) It(s) U.S.C. 122 form PTO/SB/3 Mail	DS 35 the
77.0		19. CORRESPON				•		
Custom	ner Number:	026096		OR [Corre	spondence	address belo	w
Name	Name John E. Carlson							
Carlson Gaskey & Olds. P.C.								
Address		aple Road, Suite 350						
City	Birmingham	·	State MI			Zip Code 48009		
Country	United States of America			elephone 248-988-8360				8-8363
Name (Print/Type) John E. Carlson // Registration No. (Attorney/Agent) 37,794								
Signature	/		1 -			Date	12/02/2003	3

This collection of information is required by 37 CFR 1.33(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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FEE TRANSMITTAL for FY 2003

Effective 01/01/2003. Patent fees are subject to annual revision.

Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT

SUBMITTED BY

Name (Print/Type)

Signature

John E. Carlson

(\$) 810.00

Complet if Known				
Application Number				
Filing Date	Herewith			
First Named Inventor	Tobias Sienel			
Examiner Name				
Art Unit				
Attorney Docket No.	60,246-258/10781			

METHOD OF PAYMENT (check all that apply)			FEE CALCULATION (continued)				
Check Credit card Money Other None		3. ADDITIONAL FEES					
Deposit Account:		<u>Large</u>	Large Entity				
Deposit		Fee Code		Fee Code	Fee (\$)	Fee Description	Fee Paid
Account Number	03-0835	1051	130	2051	• • •	Surcharge - late filing fee or oath	
Deposit Account	Carrier	1052	50	2052	25	Surcharge - late provisional filing fee or	
Name		1053	130	1053	130	cover sheet Non-English specification	
	ioner is authorized to: (check all that apply) (s) indicated below Credit any overpayments		2,520	1812		For filing a request for ex parte reexamination	
Charge lee	(s) indicated below Credit any overpayments vadditional fee(s) during the pendency of this application	1804	920*	1804	920*	Requesting publication of SIR prior to	
	(s) indicated below, except for the filing fee		4 0 4 0 *	1005	1 0 4 0 *	Examiner action Requesting publication of SIR after	
	entified deposit account.	1805	1,840*	1805	1,840"	Requesting publication of SIR after Examiner action	
	FEE CALCULATION	1251	110	2251	55	Extension for reply within first month	
1. BASIC F		1252	410	2252	205	Extension for reply within second month	
Large Entity	Small Entity	1253	930	2253	465	Extension for reply within third month	
	Fee Fee Fee Description Fee Paid Code (\$)	1254	1,450	2254	725	Extension for reply within fourth month	<u> </u>
1001 750	2001 375 Utility filing fee 770.00	1255	1,970	2255	985	Extension for reply within fifth month	-
1002 330	2002 165 Design filing fee	1401	320	2401	160	Notice of Appeal	
1003 520	2003 260 Plant filing fee	1402	320	2402	160	Filing a brief in support of an appeal	
1004 750	2004 375 Reissue filing fee	1403	280	2403	140	Request for oral hearing	
1005 160	2005 80 Provisional filing fee	1451	1,510	1451	1,510	Petition to institute a public use proceeding	
	SUBTOTAL (1) (\$) 770.00	1452	110	2452	55	Petition to revive - unavoidable	
2 EYTDA (CLAIM FEES FOR UTILITY AND REISSUE	l l	1,300	2453	650	Petition to revive - unintentional	
Z. EXTRA C	Fee from	1501	1,300	2501		Utility issue fee (or reissue)	
Total Claims	Extra Claims below Fee Paid 12 -20** = x 18 = 0	1502	470	2502		Design issue fee	
Independent	3 -3** = x 84 =0	1503	630	2503		Plant issue fee	
Claims Multiple Deper		1460	130	1460		Petitions to the Commissioner	
Large Entity	Small Entity	1807	50	1807		Processing fee under 37 CFR 1.17(q)	
Fee Fee	Fee Fee Fee Description	1806	180	1806		Submission of Information Disclosure Stmt Recording each patent assignment per	40.00
Code (\$) 1202 18	Code (\$) 2202 9 Claims in excess of 20	8021	40	8021		property (times number of properties)	40.00
1202 10	2201 42 Independent claims in excess of 3	1809	750	2809	375	Filing a submission after final rejection (37 CFR 1.129(a))	
1203 280	2203 140 Multiple dependent claim, if not paid	1810	750	2810	375	For each additional invention to be	
1204 84	2204 42 ** Reissue independent claims over original patent	1801	750	2801	375	examined (37 CFR 1.129(b)) Request for Continued Examination (RCE)	
1205 18	2205 9 ** Reissue claims in excess of 20 and over original patent	1802	900	1802	900	Request for expedited examination of a design application	
	SUBTOTAL (2) (\$) 0.00	Other	fee (sp	ecify) _			
**or number	*Redu	*Reduced by Basic Filing Fee Paid SUBTOTAL (3) (\$) 40.00					
**or number previously paid, if greater; For Reissuas, see above SUBMITTED BY (Complete (if applicable)							

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Registration No.

(Attorney/Agent)

37.794

Telephone (248) 988-83

December 2, 2003

Date

This collection of information is required by 37 CFR 1.17 and 1.27. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.

UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:

Tobias Sienel

Serial No.:

Unknown

Filed:

Herewith

Title:

Freeze Protection For Heat Pump System

EXPRESS MAIL CERTIFICATE

"Express Mail" Label Number: EV221422999US

Date of Deposit:

December 2, 2003

I hereby certify that the attached documents or fees are being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and are addressed to "Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450".

Lesley Upton

(Typed or printed name of person mailing paper or fee)